

Supplementary Material to “Systems chemo-biology analysis of DNA damage response and cell cycle effects induced by coal exposure”

Table S2 - Inorganic element concentrations in coal samples as revealed by PIXE assay (mean \pm standard deviation)

Inorganic elements	Guacamaya (PPM)	El Cerrejón (PPM)
Sodium (Na)	9212 \pm 1050.73^{***}	3283 \pm 285.97
Magnesium (Mg)	4779.33 \pm 332.27^{***}	2166.33 \pm 167.63
Aluminium (Al)	1634.33 \pm 75.22	21311 \pm 2110.55^{***}
Silicon (Si)	1341.67 \pm 91.09	37252.33 \pm 3907.90^{***}
Sulphur (S)	4084 \pm 312.64	6807.67 \pm 239.43^{***}
Chlorine (Cl)	52.94 \pm 10.28	243.77 \pm 40.05^{**}
Potassium (K)	137.33 \pm 2.76	1873.33 \pm 180.79^{***}
Calcium (Ca)	7838 \pm 241.01^{***}	1675 \pm 595.25
Titanium (Ti)	115.37 \pm 14.79	879.97 \pm 241.27^{**}
Chromium (Cr)	4.638 \pm 3.591	20.98 \pm 0.97
Manganese (Mn)	9.56 \pm 1.38	85.46 \pm 18.21[*]
Iron (Fe)	3078.67 \pm 76.63	6113.33 \pm 1399.06[*]
Nickel (Ni)	17.61 \pm 21.44	241.77 \pm 163.14
Zinc (Zn)	12.40 \pm 1.71	31.63 \pm 6.89[*]
Strontium (Sr)	180.7 \pm 8.54	ND

Unpaired T Test/ **Bold** for significantly higher values ***P < 0.001, **P < 0.01, *P < 0.05

ND = Not detected